

# Automatic Detectors for RF Interface FUIF511-27D

- **Optical smoke detector**
- **Thermal ROR detector**
- **High range of radio transmission**
- **2 frequency bands (868MHz and 434MHz)**
- **Detector removal causes fault message**



## Optical Smoke Detector 55000-680

The Optical Smoke Detector 55000-680 (fig. B) uses the scattered light principle and was developed for the detection of smoke particles in a wide range of fire detection applications. The modern design of the sensing chamber allows to reliably evaluate the characteristics of fire.

The detector indicates the alarm by means of an LED. Sealed electronics and an insect screen ensure optimum protection against false alarms activated through environmental impact. Furthermore, the extremely low quiescent current ensures a long life of the two batteries in the detector base.

## Specifications

Operating voltage	Supply through two batteries in the detector base
Battery life	approx. 1.5 years
Ambient temperature	0°C to +60°C (no condensation)
Dimensions ø x H	100 x 42 (mm)
Colour	white
Weight	100g
Approval	VdS G206017
Order number	241029
Order name	Optical Smoke Detector/RF 55000-680

## Thermal ROR Detector 55000-480

The Thermal ROR Detector 55000-480 (fig. A) reacts to temperature changes within defined periods of time, up to a maximum temperature of 57°C. The intelligent evaluation of these data allows the early detection of spreading fires.

The detector is designed as combined maximum/rate-of-rise heat detector of Class A1R and can be used up

to a room height of 7.5m. The detector indicates the alarm by means of an LED.

The sealed electronics ensures optimum protection against false alarms activated through environmental impact. Furthermore, the extremely low quiescent current ensures a long life of the two batteries in the detector base.

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## Specifications

Operating voltage	Supply through two batteries in the detector base
Battery life	approx. 1.5 years
Alarm temperature	57°C (maximum-heat component)
Operating temperature	max. +50°C
Ambient temperature	0°C to +60°C (no condensation)
Dimensions ø x H	100 x 42 (mm)
Colour	white
Weight	80g
Approval	VdS G206016
Order number	242029
Order name	Thermal ROR Detector/RF 55000-480

## Detector Base 215-27D

The Detector Base 215-27D (fig. C) accommodates the radio detectors and also serves for the communication with the RF Interface FUIF511-27D via a secured radio protocol. The base consists of the actual detector base and a bottom part. The actual detector base, which contains the radio communication module and two batteries (fig. D), is attached to the bottom part by means of a bayonet lock, thus allowing to change the batteries with ease.

4 data channels in the frequency band 868MHz as well as 20 channels in the frequency band 434MHz are available for the bidirectional data transmission. The availability of the channel is checked regularly. During the

learning phase of the detector, i.e., when the detector is registered at the radio interface, a unique key, based on a choice of several million codes, is created, which allows the unambiguous identification of the detector. The RF Interface FUIF511-27D is used for the alarm transmission to the fire detection control panel. In the event of an unauthorised removal of the detector, the base sends a fault message to the RF interface.

Regular status messages, monitoring of the battery voltage, the low quiescent current of the inserted detectors and the long life of the included batteries ensure the high reliability of the system.

## Specifications

Ambient temperature	0°C to +60°C (no condensation)
Dimensions ø x H	100 x 50 (mm)
Colour	white
Weight	160g (without batteries)
Approval	VdS G206016 VdS G206017
Order number	246040
Order name	Detector Base/Conv./RF 215-27D

### Lithium Battery

Order number	310020
Order name	Lithium Battery 9V/1.2Ah